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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/543,663	04/05/2000	Roland Lamer	15-1S-5288(70191/235)	7305
75	90 09/12/2002			
Steven C Becker			EXAMINER	
Foley & Lardner firstar Center			FRENEL, VANEL	
777 East Wisconsin Avenue Milwaukee, WI 53202-5367			ART UNIT	PAPER NUMBER
1.111aunce, ** 1			3626	
			DATE MAILED: 09/12/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)				
,	•	09/543,663	LAMER ET AL.	P			
	Office Action Summary	Examiner	Art Unit				
		Vanel Frenel	3626				
	The MAILING DATE of this communication app	ears on the cover sh	eet with the correspondence address				
Period fo	• •	/ 10 0FT TO TVD					
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, y within the statutory minimu vill apply and will expire SIX of the application to become	may a reply be timely filed  n of thirty (30) days will be considered timely.  6) MONTHS from the mailing date of this communic ome ABANDONED (35 U.S.C. § 133).	cation.			
1)	Responsive to communication(s) filed on 27 J	lanuary 2002 .					
2a)□	·	is action is non-final					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
· ·	ion of Claims						
4)⊠	Claim(s) 1-27 is/are pending in the application.						
<b>5</b> \_	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
·	Claim(s) <u>1-27</u> is/are rejected.						
·	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
•	ion Papers	r election requireme	н.				
• •	The specification is objected to by the Examine	r.	•				
, —	The drawing(s) filed on is/are: a)☐ accep		o by the Examiner.				
. —	Applicant may not request that any objection to the	e drawing(s) be held ir	abeyance. See 37 CFR 1.85(a).				
11)	The proposed drawing correction filed on	_ is: a)□ approved t	)  disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority	under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
* (	3. Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2	?(a)).	<b>;</b>			
14) 🔲 /	Acknowledgment is made of a claim for domesti	ic priority under 35 L	.S.C. § 119(e) (to a provisional appli	cation).			
	<ul> <li>The translation of the foreign language pro Acknowledgment is made of a claim for domest</li> </ul>	• •					
Attachmer	t(s)						
2) Notice	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u>	5) 🔲 No	erview Summary (PTO-413) Paper No(s) tice of Informal Patent Application (PTO-152) er:				

Art Unit: 3626

#### **DETAILED ACTION**

# Notice to Applicant

1. This communication is in response to the application filed 05 April 2000. Claims 1-27 are pending.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wong et al (6,260,021) in view of Mason et al (5,668,998).
- (A) As per claim 1, Wong discloses a data management system for patient data, comprising:

a first component having a functionality code segment and a user interface code segment (Col.8, lines 65-67 to Col.9, line 21);

a second component having a functionality code segment and a user interface code segment (Col.8, lines 65-67 to Col.9, line 21); and

a container application having a first user interface layer in communication with the first component and a second user interface layer in communication with the second component (Col.6, lines 1-55). Wong does not explicitly disclose wherein the first and second user interface layers are configured to communicate

Art Unit: 3626

patient data between the functionality code segments of the first and second components, respectively, and a user interface .

However, this feature is known in the art, as evidenced by Mason. In particular, Mason teaches the first and second user interface layers are configured to communicate patient data between the functionality code segments of the first and second components, respectively, and a user interface (See Mason Col.5, lines 26-67 to Col.6, 58).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have included the feature of Mason within the computer-based medical image distribution system and method's of Wong with the motivation of enabling an application programmer to customize individual objects in the framework or to alter parameter values and object behavior. Modification accommodates changes to the service interface objects provided by the framework. Furthermore, the service interface objects provided by the toolkit framework substantially reduces the effort hours expended on the development of application programs which conform to the DICOM standard to provide DICOM services on a PACS (See Mason Col.3, lines 26-34).

- (B) As per claim 2, Wong discloses the data management system wherein the functionality code segment of the first component is configured to store and retrieve patient image data (Col.10, lines 13-27).
- (C) As per claim 3, Wong discloses the data management system wherein the functionality code segment of the second component is configured to store and retrieve patient text data (Col.1, lines 52-59).

Art Unit: 3626

- (D) As per claim 4, Wong discloses the data management system wherein the first and second user interface layers are configured to format the patient data from the first and second functionality code segments with the same look and feel (Col.3, lines 31-60).
- (E) As per claim 5, Wong discloses the data management system, the container further comprising a first service layer in communication with the first component and a second service layer in communication with the second component, wherein the first and second service layers are configured to communicate data between the functionality code segments of the first and second components and a service (Col.12, lines 65-67 to Col.13, line 59).
- (F) As per claim 6, Mason discloses the data management system wherein the service includes a telecommunication service (See Mason Col.8, lines 1-13).
- (G) As per claim 7, Wong discloses a data management system for patient data, comprising: a first application for retrieving patient image data from a database (Col.10, lines 13-47);

a second application for processing patient text data (Col.7, lines 1-58); and

Wong does not explicitly disclose a data manager in communication with the first and second applications, wherein the data manager includes a user interface code segment in communication with the first and second applications for receiving the

patient image data and patient text data for generating display signals based on the patient image data and the patient text data according to a predetermined display format.

However, this feature is known in the art, as evidenced by Mason. In particular, Mason teaches a data manager in communication with the first and second applications, wherein the data manager includes a user interface code segment in communication with the first and second applications for receiving the patient image data and patient text data for generating display signals based on the patient image data and the patient text data according to a predetermined display format (See Mason Col.7, lines 15-63).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have included the feature of Mason within the computer-based medical image distribution system and method's of Wong with the motivation of enabling an application programmer to customize individual objects in the framework or to alter parameter values and object behavior. Modification accommodates changes to the service interface objects provided by the framework. Furthermore, the service interface objects provided by the toolkit framework substantially reduces the effort hours expended on the development of application programs which conform to the DICOM standard to provide DICOM services on a PACS (See Mason Col.3, lines 26-34).

Art Unit: 3626

(H) As per claim 8, Wong discloses the data management system further comprising a display unit configured to receive the display signals and provide a display based on the display signals (Col.7, lines 29-37).

- (I) As per claim 9, Wong discloses the data management system wherein the predetermined display format has a look and feel for both the patient image data and the patient text data (Col.11, lines 17-64).
- (J) As per claim 10, Wong discloses the data management system further comprising

a third application configured to process data, the user interface code a segment in communication with the third application and configured to

receive the data and to generate display signals based on the data (Col.13, lines 2-44).

(K) As per claim 11, Wong discloses the data management system wherein the third

application is in communication with the internet (Col.8, lines 53-67 to Col.9, line 21).

(L) As per claim 12, Wong discloses a data management system for patient data, comprising:

a first component configured to retrieve patient image data (Col.11, lines 4-48); a second component having a second functionality (Col.11, lines 4-64); a first service layer configured to communicate with the first component (Col.9, lines 34-42);

Art Unit: 3626

a second service layer configured to communicate with the second component (Col.9, lines 34-63). Wong does not explicitly disclose a service configured to communicate with the first component and the second component via the first and second service layers, respectively, wherein the service communicates with the first and second components via a predetermined protocol.

However, this feature is known in the art, as evidenced by Mason. In particular, Mason teaches a service configured to communicate with the first component and the second component via the first and second service layers, respectively, wherein the service communicates with the first and second components via a predetermined protocol (Col.12, lines 43-65 to Col.13, line 13).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have included the feature of Mason within the computer-based medical image distribution system and method's of Wong with the motivation of enabling an application programmer to customize individual objects in the framework or to alter parameter values and object behavior. Modification accommodates changes to the service interface objects provided by the framework. Furthermore, the service interface objects provided by the toolkit framework substantially reduces the effort hours expended on the development of application programs which conform to the DICOM standard to provide DICOM services on a PACS (See Mason Col.3, lines 26-34).

(M) As per claim 13, Wong discloses the data management system wherein the

second functionality is configured to communicate with the internet (Col.6, lines 35-55).

Art Unit: 3626

(N) As per claim 14, Wong discloses the data management system wherein the

second functionality is configured to process patient text data (Col.11, lines 17-64; Col.14, lines 1-42).

- (O) As per claim 15, Mason discloses the data management system wherein the service includes a telecommunication service (See Mason Col.8, lines 1-13).
- (P) As per claim 16, Wong discloses the data management system further comprising a container application having a first user interface layer in communication with the first component and a second user interface layer in communication with the second component, wherein the first and second user interface layers are configured to communicate patient data between the first and second components, respectively, and a user interface (Col.9, lines 1-63; Col.11, lines 4-64).
- (Q) As per claim 17, Wong discloses the data management system wherein the container is configured to provide the patient data to the user interface with a predetermined look and feel (Col.3, lines 31-60).
- (R) As per claim 18, Wong discloses the data management system wherein the predetermined protocol includes componentware (Col.8, lines 53-67).
- (S) As per claim 19, Wong discloses a data management system for patient data, comprising:

first means for processing patient image data (Col.11, lines 4-48);

Art Unit: 3626

second means for processing patient text data (Col.11, lines 17-64; Col.14, lines 1-42). Wong does not explicitly disclose third means for communicating between the first and second means, for receiving patient image data and patient text data from the first and second means, and for displaying the patient image data and patient text data according to a predetermined display format.

However, this feature is known in the art, as evidenced by Mason. In particular, Mason teaches third means for communicating between the first and second means, for receiving patient image data and patient text data from the first and second means, and for displaying the patient image data and patient text data according to a predetermined display format (Col.12, lines 33-67).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have included the feature of Mason within the computer-based medical image distribution system and method's of Wong with the motivation of enabling an application programmer to customize individual objects in the framework or to alter parameter values and object behavior. Modification accommodates changes to the service interface objects provided by the framework. Furthermore, the service interface objects provided by the toolkit framework substantially reduces the effort hours expended on the development of application programs which conform to the DICOM standard to provide DICOM services on a PACS (See Mason Col.3, lines 26-34).

Art Unit: 3626

(T) As per claim 20, Wong discloses the data management system wherein the first means includes a PACS component (Col.1, lines 21-37).

(U) As per claim 21, Wong discloses the data management system wherein the first

means includes a user interface code segment, and the third means a includes a user interface layer in communication with the user interface code segment (Col.13, lines 1-44).

(V) As per claim 22, Wong discloses a method of displaying patient data from a plurality of applications, comprising:

receiving patient image data (Col.11, lines 4-48);

receiving patient text data (Col.7, lines 1-58). Wong does not explicitly disclose configuring both the patient image data and patient text data according to a predetermined display format; and displaying the configured patient image data and patient text data.

However, this feature is known in the art, as evidenced by Mason. In particular, Mason teaches the patient image data and patient text data according to a predetermined display format; and displaying the configured patient image data and patient text data (Col.5, lines 39-67).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have included the feature of Mason within the computer-based medical image distribution system and method's of Wong with the motivation of enabling an application programmer to customize individual objects in the

Art Unit: 3626

framework or to alter parameter values and object behavior. Modification accommodates changes to the service interface objects provided by the framework. Furthermore, the service interface objects provided by the toolkit framework substantially reduces the effort hours expended on the development of application programs which conform to the DICOM standard to provide DICOM services on a PACS (See Mason Col.3, lines 26-34).

- (W) As per claim 23, Wong discloses the method further comprising receiving the patient image data from a PACS database (Col.1, lines 21-38).
- (x) As per claim 24, Mason discloses the method wherein the predetermined display format includes a display format for an icon (See Mason Col.7, lines 1-9).
- (Y) As per claim 25, Mason discloses the method wherein the predetermined display format includes a display format for a menu . (The Examiner interprets advanced navigation techniques as a form of display format for a menu)(Col.7, lines 3-9).
- (Z) As per claim 26, Wong discloses the method further comprising communicating the patient image data through a user interface layer (Col.1, lines 65-67 to Col.2, line 37).
- (AA) As per claim 27, Wong discloses the method further comprising providing patient image data to one of the internet and an intranet (Col.6, lines 44-55).

Art Unit: 3626

## Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited but not applied art teaches medical diagnostic report forming apparatus capable of attaching image data on report (5,581,460) and image data management system particularly for use in a hospital (5,586,262).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vanel Frenel whose telephone number is 703-305-4952. The examiner can normally be reached on 6:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Thomas can be reached on 703-305-9643. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7687 for regular communications and 703-305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1113.

September 6, 2002

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600